

NATUREL KISS ONLINE SHOPPING
(NKOS)

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STUDENT'S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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ABSTRACT

Naturel Kiss is a well-established beauty products company which has received numerous accolades locally and internationally. According to the founder, Naturel Kiss' objectives are to offer Malaysian women with skincare and cosmetic products that are safer, non-toxic, and based on natural local and imported ingredients as best as possible. These products can be purchased via distributors and agents throughout Peninsular Malaysia, Sabah and Sarawak. In addition, these products can also be purchased online through the company's official website. However, Naturel Kiss is lacking of a mobile application platform that allows the customers to purchase the products at anytime, anywhere with the help of internet. Therefore, Naturel Kiss Online Shopping (NKOS) mobile application is developed to improve the efficiency of Naturel Kiss e-commerce system which later having both web-based and mobile-based online shopping platforms. Naturel Kiss Online Shopping (NKOS) mobile application is developed to facilitate the sale and purchase of users at the tips of their fingers. The objectives of this project are to design a beauty product online shopping mobile application, to develop a prototype for the Naturel Kiss Online Shopping (NKOS) system and to validate the Naturel Kiss Online Shopping (NKOS) prototype as a mobile-based system. This project is developed using the Android Studio software, laptop and Java programming language by using the methodology of Rapid Application Development (RAD). There are four phases in RAD model, which are Requirements Planning, User Design, Construction and Cutover. After developing the system, client will be involved in the User Acceptance Test (UAT) to ensure that the system is functioning according to the requirements without any bugs or errors. The User Acceptance Test (UAT) will prove that the system has fulfilled its objectives and able to solve the problem encountered previously. Hence, as a result from the development, a mobile-based online shopping application is developed and all of the features are functioning properly according to the requirements.

ABSTRAK

Naturel Kiss ialah sebuah syarikat produk kecantikan yang terkenal dan telah banyak menerima penghargaan di dalam mahupun di luar negara. Menurut pengasasnya, objektif *Naturel Kiss* adalah untuk menawarkan wanita Malaysia dengan produk penjagaan kulit dan kosmetik yang lebih selamat, tidak bertoksik, serta berdasarkan ramuan tempatan dan bahan semulajadi yang terbaik. Produk ini boleh dibeli melalui pengedar dan ejen di seluruh Semenanjung Malaysia, Sabah dan Sarawak. Di samping itu, produk ini juga boleh dibeli secara dalam talian melalui laman web rasmi syarikat tersebut. Walaubagaimanapun, *Naturel Kiss* tidak mempunyai sebarang platform aplikasi mudah alih yang membolehkan pelanggan membeli produk pada bila-bila masa, di mana sahaja dengan adanya internet. Oleh itu, aplikasi mudah alih *Naturel Kiss Online Shopping* (NKOS) ini dibangunkan untuk meningkatkan kecekapan sistem e-dagang *Naturel Kiss* yang akan datang mempunyai kedua-dua platform membeli-belah iaitu berasaskan web dan juga mudah alih. Aplikasi mudah alih *Naturel Kiss Online Shopping* (NKOS) ini dibangunkan untuk memudahkan penjualan dan pembelian pengguna di hujung jari mereka. Objektif projek ini adalah untuk merekabentuk aplikasi mudah alih bagi tujuan pembelian produk kecantikan secara dalam talian, untuk membangunkan prototaip bagi sistem *Naturel Kiss Online Shopping* (NKOS) dan untuk mengesahkan bahawa prototaip *Naturel Kiss Online Shopping* (NKOS) adalah sebagai sistem yang berasaskan mudah alih. Projek ini dibangunkan menggunakan perisian Android Studio, komputer riba dan bahasa pengaturcaraan Java dengan menggunakan kaedah *Rapid Application Development* (RAD). Terdapat empat fasa dalam model RAD, iaitu Perancangan Keperluan, Reka Bentuk Pengguna, Pembinaan dan Pemotongan. Selepas system dibangunkan, pelanggan akan terlibat dalam Ujian Penerimaan Pengguna (UAT) untuk memastikan bahawa sistem dapat berfungsi mengikut keperluan tanpa sebarang kesalahan atau kesilapan. Ujian Penerimaan Pengguna (UAT) akan membuktikan bahawa sistem telah memenuhi objektifnya dan dapat menyelesaikan masalah yang dihadapi sebelumnya. Oleh itu, hasil daripada pembangunan tersebut, sebuah aplikasi mudah alih bagi tujuan membeli-belah secara dalam talian telah dibangunkan dan semua ciri berfungsi dengan baik seperti yang dikehendaki.

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LIST OF ABBREVIATION

NKOS	-	Naturel Kiss Online Shopping
B2B	-	Business to Business
B2C	-	Business to Consumers
HTTP	-	HyperText Transfer Protocol
XML	-	Extensible Markup Language
UML	-	Unified Modeling Language
CSS	-	Cascading Style Sheets
SDLC	-	Software Development Life Cycle
RAD	-	Rapid Application Development
GUI	-	Graphical User Interface
UAT	-	User Acceptance Test
JAD	-	Join Application Design
CASE	-	Computer-Aided Software Engineering
HP	-	Hawlett-Packard
AMD	-	Advanced Micro Devices
RAM	-	Random Access Memory
ROM	-	Read-Only Memory
REST	-	Representational State Transfer
API	-	Application programming interface

CHAPTER 1

INTRODUCTION

1.1 BACKGROUND

Online shopping is a sort of electronic correspondences innovation that is utilized at the phase of requesting, offering, and/or payment, which is otherwise called as 'E-commerce'. This E-commerce is normally being directed between the clients and the organizations. Other than that, the exchange can likewise be led among companies and public administrations. E-commerce is also the online monetary exchanges process that is overseen by individuals and organizations. The key parts of E-commerce are generally separated by electronic commerce between businesses (B2B), between consumers and businesses (B2C) and between consumers. .

The matter of E-commerce which is also significant to E-retailing has been characterized as the sale of products by means of the web or other electronic channels, either for individual or for household use by the purchasers. The process of performing the E-commerce exchange by the clients include viewing the goods and services, adding the products into cart and conducting the checkout process which results in the approval or rejection of the payment. From the point of view of an E-commerce organization, it can sell the goods or services to any part of the world with the assistance of the Internet. It implies that the area isn't constrained to specific zones like a physical retail location.

Likewise, a small and growing organization can likewise take place in the market. This implies that in an E-commerce business, small and medium ventures can lead the business and become similarly focused to the bigger ones. This is because it enables them to withstand the difficulties and to snatch the odds by picking up a bigger client and can be opened all day, every day under negligible supervision. E-commerce does not just build the brilliant open door for the vender, yet it likewise expands the purchasing opportunities for the buyer. They can consider various items from a multi-scope of decisions which are more extensive than traditional business.

1.2 PROBLEM STATEMENT

Malaysia has a high rate of E- commerce utilization with an exceptional number of 15.3 million online customers (50 percent of the population) as of July 2018 with 62 percent of mobile users utilizes their gadgets to shop online. Online customers are with the range of products, the price advantages and the product reviews. Interestingly, Malaysian customers usually seek for convenience, free delivering, and promotions offered by the online stores.

In Malaysia, Fashion and Beauty is among the main three most purchased categories of items. There are a lot of online shopping platforms for beauty items which are made predominantly dependent on social media, for example, Instagram, Facebook, Twitter and Whatsapp. However, Naturel Kiss, a local beauty company is lacking of the mobile application platform for the customers to purchase the beauty products. The beauty products are only available to be purchased through the official website. The aim is to provide the ease of use for the customers to purchase the Naturel Kiss beauty products at anytime wherever there is an internet connection.

Therefore, there is a significant need to have an online shopping mobile application to enhance and ease the sales and purchase of the Naturel Kiss beauty products.

1.3 OBJECTIVE

The objectives of this project are:

- i. To design a beauty product online shopping mobile application.
- ii. To develop a prototype for the Naturel Kiss Online Shopping (NKOS) system.
- iii. To validate the Naturel Kiss Online Shopping (NKOS) prototype as a mobile-based system.

1.4 SCOPE

The scopes of this project which include:

- i. User:
 - a. The system is used by customer (registered) and admin of Naturel Kiss Online Shopping (NKOS).
- ii. Client:
 - a. Naturel Kiss.
- iii. Functions:
 - a. User Login: Login is the function for the customer and admin as the authorized users to use the system.
 - b. User Registration: Registration is the function for guest to become an authorized customer in order to have full access to the system.
 - c. View Profile Details: This function allows the customer to view their profile details.
 - d. Edit Profile Details: This function allows the customer to edit their profile details.
 - e. View Products Details: This function allows the users to view the products available.
 - f. Search Products: This function allows the customers to search for the desired products.
 - g. Add Product to Cart: This function allows the customer to add the desired products to cart.
 - h. View Products in Cart: This function allows the customer to view the products that have been added to the cart.
 - i. Delete Products in Cart: This function allows the customer to delete products in the cart.
 - j. Checkout: This function allows the customer to pay for the products meanwhile bank will validate and approve the transaction.

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